Delivering Manufacturing Excellence in composite components
Teledyne CML Composites, based in Bromborough, England, provides a comprehensive service for composite manufactured products in advanced engineering applications including, components and assemblies for aircraft structures and systems.

Teledyne CML Composites is a wholly owned subsidiary of Teledyne Technologies, Inc., and integrated with the Marine and Aviation Manufacturing business unit of Teledyne Brown Engineering Inc. (TBE) which is a recognized leader in providing technology solutions to a broad base of government and commercial customers, successfully meeting their most demanding needs. Based in Huntsville, Alabama, USA, TBE offers design, manufacture, engineering support, software development, training etc in space systems, mission systems, C4ISR, missiles and small turbine engines etc and has major thrusts in a number of emerging activities.

With its origins in precision machining and fabrication for the aerospace industry since the 1940’s, Teledyne CML Composites now focus on the manufacture and supply of a wide range of composite components from the most basic through to complete sub-assemblies or kits of parts. Design-for-manufacture, project and supply chain management have also become integral parts of this offering.

TBE and CML’s five plants cover some 52,000 square metres and include machine shops with multi-axis CNC equipment, composites manufacturing, electrical and electronics assembly areas, sheet metal and welding shops.

In addition to our highly skilled manufacturing staff, TBE and CML have professional staff encompassing a broad range of engineering, physical sciences, mathematics, computer sciences, and business disciplines.

From concept exploration to production and delivery, TBE and CML jointly have full engineering and manufacturing capabilities. This combination of development, manufacturing and follow-up excellence differentiates TBE and CML from their competitors, making them the ideal “one-stop” provider of high-technology hardware products.

That’s why we say, “If you can Think It, we can Build It.”

Teledyne CML Composites excels in the manufacture of composite components and assemblies for aircraft systems and structures.

Photograph of F-35 Lightning II (JSF) courtesy of Lockheed Martin.
Delivering Manufacturing Excellence in Composite Components

**Teledyne CML Composites**
Operating out of a brand new state of the art facility opened by HRH Prince Andrew in 2011, Teledyne CML Composites can supply the complete Turnkey package, from engineering, lay-up, curing, CNC machining, assembly, paint and NDT. With the added bonus of metal fabrication and machining capability in-house Teledyne CML Composites can offer a “one stop shop” for the customer looking for a complete composite manufacturing solution.

**Product Range:** Structural and non-structural components and assemblies such as wing and fuselage fairings, covers and panels, nose and tail cone assemblies, floors, interior panels and fittings, ducting etc.

**Processes:** Kevlar, glass and carbon fibre pre-pregs, wet lay-up and metal to metal bonding.

**Curing:** Autoclave and Oven cure

**Facilities:**
- 60,000 ft² manufacturing facility
- CNC Kit cutting
- Two independent clean rooms totalling 11,600 ft²
- Wet lay-up area
- Autoclaves
- Curing Ovens
- 3 and 5 axis CNC machining
- Metal fabrication and heat treatment
- Trim and rout
- Clean Assembly area
- Spray bake paint booths
- Ultrasonic A scan and through transmission NDT
- CMM inspection
- Mechanical and physio-chemical laboratory

Delivering Manufacturing Excellence in Composite Components
Teledyne CML has a long history of working with major OEM’s and tier 1 suppliers on many long term programmes and have an enviable reputation for delivery and quality adherence.

**BAE Systems**  
- F35 Lightening II Joint Strike Fighter  
- Tornado  
- Hawk

**GKN Yeovil**  
- AW159 Super Lynx

**Spirit Aerosystems**  
- A320 NEO  
- A350XWB

**GE Aerospace**  
- Hawk  
- A350

**Marand**  
- F35 Lightening II Joint Strike Fighter

**Magellan**  
- F35 Lightening II Joint Strike Fighter

**Senior Aerospace**  
- Global Express 5000  
- Dash 8
Teledyne Composites highly experienced team of engineers are accomplished in the successful industrialisation of complex parts and assemblies and rigorously pursue continuous improvement in methods, processes and layouts.

State-of-the-art software (NCL programming, Vericut, Catia V5 CAD/CAM etc) and lean manufacturing techniques combine to ensure right-first-time product and subsequent gains in quality, cost and delivery.

In addition, Teledyne Brown Engineering provides a wide array of engineering services ranging from concept development and requirements analysis to systems engineering, design, analysis, integration, manufacturing, test, operations and management solutions spanning the product lifecycle.

Key capabilities include
- Systems engineering
- Analysis and integration
- Design and development
- Modeling and simulation
- Hardware-in-the-loop.
Teledyne Technologies is devoted to advancing science, acquiring and inventing new technology, and using it to help our customers solve challenges in business and society. Teledyne serves an immense range of applications, providing technologies vital to industrial growth markets. You may not realize it, but Teledyne technology enables many of the products and services you use every day. Proof is all around you - Everywhereyoulook.

To learn more about Teledyne visit our website www.teledyne.com for more detail on the markets we serve, the products we offer, and the companies that comprise us.
Independent Quality Approvals:
BS EN ISO 9001:2008 / AS EN 9100 Rev C
NADCAP

Customer Quality Approvals:
Airbus UK
AgustaWestland
BAE SYSTEMS
Spirit Aerosystems
Bombardier Aerospace
GE Aviation Mechanical Systems
GKN Aerospace
Hawker Beechcraft
Raytheon Systems

Environmental Management System:
ISO 14001:2004
Teledyne CML Composites and Teledyne Brown Engineering, Inc. are both wholly owned subsidiaries of Teledyne Technologies Incorporated.

Teledyne Technologies serve niche market segments where performance, precision and reliability are critical. Our customers include airlines and aerospace contractors, government agencies, industrial manufacturers and energy, infrastructure and natural resources companies.

Aerospace & Defence Electronics
Complex electronic components and subsystems and communications products for defence electronics, data acquisition and communications in aircraft, wireless and satellites.

Engineered Systems
Systems engineering and integration, advanced technology application, software development, and manufacturing for the aerospace, defence, environmental, and energy markets. Hydrogen gas generators, thermoelectric and fuel-based power sources, and small turbine engines.

Digital Imaging
Sponsored and central research laboratories for a range of new technologies; development and production of digital imaging products for government applications including infrared detectors, sensors, cameras, and opto-mechanical assemblies.

Instrumentation
Monitoring and control instruments for marine, environmental, scientific, industrial, and defence applications as well as harsh environment interconnect products.

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